

# Download Atomic And Quantum Theory In Chemistry

Atomic Structure: The Quantum Mechanical Model. According to quantum theory, it's impossible to know the exact position and momentum of an electron at the same time. This is known as the Uncertainty Principle. The quantum mechanical model of the atom uses complex shapes of orbitals (sometimes called electron clouds ),...In this episode of Crash Course Chemistry, Hank discusses what Molecules actually look like and why, some quantum-mechanical three dimensional wave functions are explored, he touches on ...Definition of orbital as region of high probability for finding electron, and how quantum numbers are used to describe the orbitals. Compares Bohr model orbits and quantum mechanical model of atom ...The other three quantum numbers,  $n$ ,  $l$ , and  $m_l$ , are properties of specific atomic orbitals that also define in what part of the space an electron is most likely to be located. Orbitals are a result of solving the Schrödinger equation for electrons in atoms.